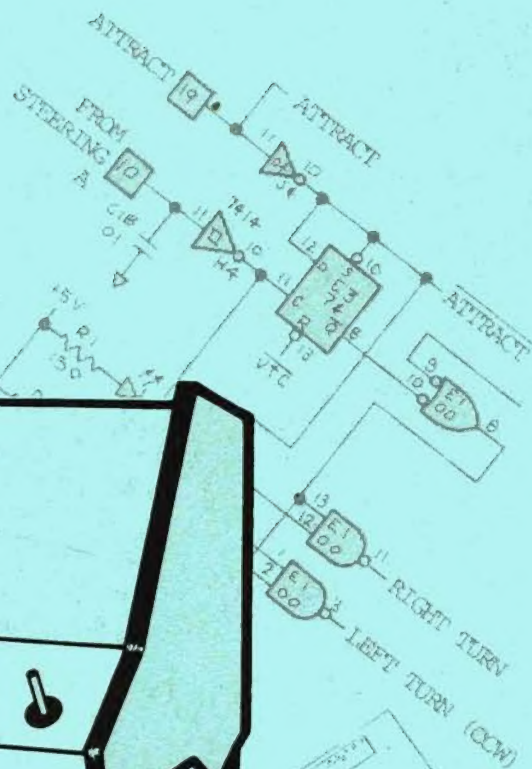


# SPACE RACE

## SERVICE MANUAL



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## WARRANTY

Seller warrants that its printed circuit boards and parts thereon are free from defects in material and workmanship under normal use and service for a period of ninety (90) days from date of shipment. Seller warrants that its television monitors are free from defects in material and workmanship under normal use and service for a period of thirty (30) days from date of shipment. None of the Seller's other products or parts thereof are warranted.

If the products described in this manual fail to conform to this warranty, Sellers' sole liability shall be, at its option, to repair, replace, or credit Buyer's account for such products which are returned to Seller during said warranty period, provided:

(a) Seller is promptly notified in writing upon discovery by Buyer that said products are defective;

(b) Such products are returned prepaid to Sellers' plant; and

(c) Seller's examination of said products discloses to Seller's satisfaction that such alleged defects existed and were not caused by accident, misuse, neglect, alteration, improper repair, installation or improper testing.

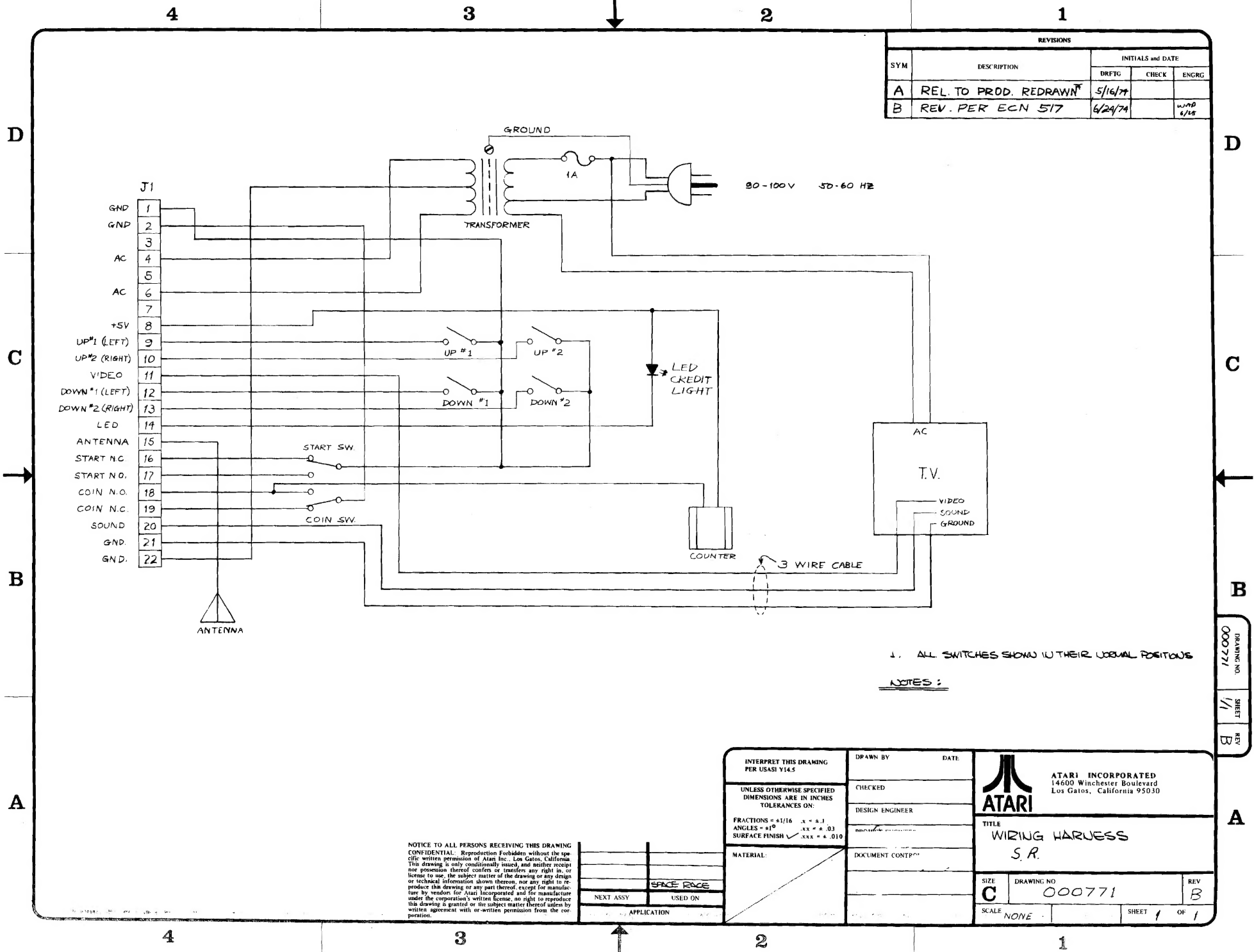
In no event shall Seller be liable for loss of profits, loss of use, incidental or consequential damages.

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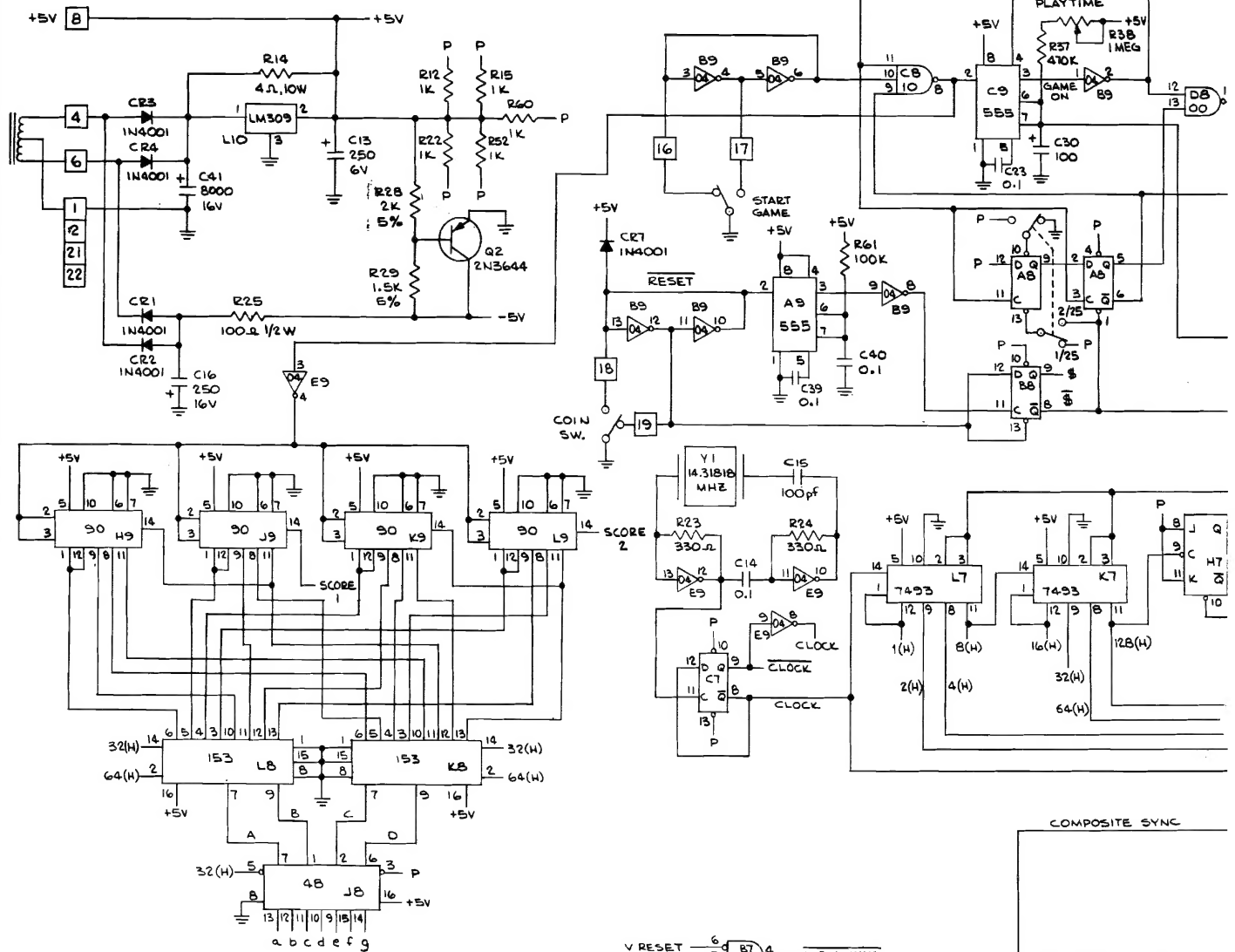


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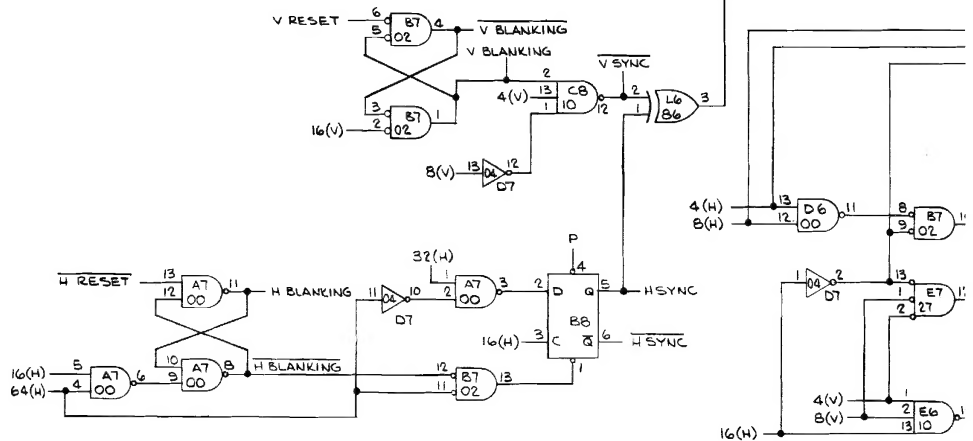
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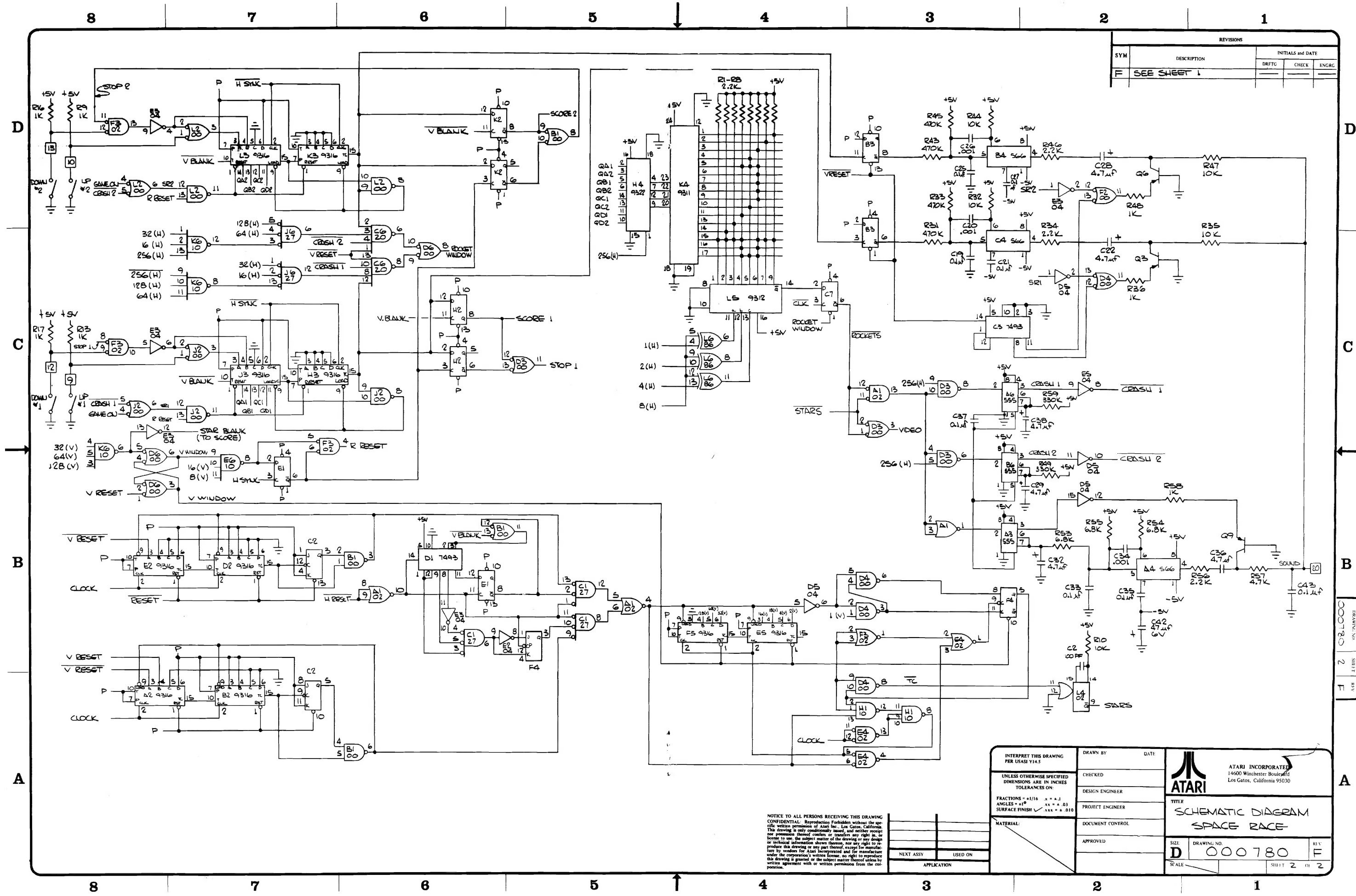
NOTES: UNLESS OTHERWISE SPECIFIED

1. ALL JK FLIP-FLOPS ARE 74107
2. ALL D TYPE FLIP-FLOPS ARE 7474
3. ALL DIODES ARE 1N914
4. ALL RESISTORS ARE 1/4W CARBON 10%
5. ALL PNP TRANSISTORS ARE 2N3644 OR EQUIVALENT.
6. ALL NPN TRANSISTORS ARE 2N3643 OR EQUIVALENT.






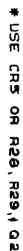




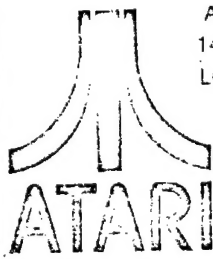
REVISIONS			
SYM	DESCRIPTION	INITIALS and DATE	
F	SEE SHEET 1	DRFTG	CHECK ENGRG

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON:	CHECKED _____	
FRACTIONS - 1/16 3/8 1/2 3/4 1 ANGLES - 15 30 45 60 90 120 135 180 SURFACE FINISH - .xxx = .010	DESIGN ENGINEER _____	
MATERIAL: _____	PROJECT ENGINEER _____	
APPROVED _____	DOCUMENT CONTROL _____	
NEXT ASSY _____ USED ON _____	APPROVED _____	TITLE SCHEMATIC DIAGRAM SPACE RACE
APPLICATION _____	SCALE _____	SIZE D DRAWING NO. 000780 REV F



STUFFING FOR S&P  
000 803



ATARI INC  
14600 WINCHESTER BOULEVARD,  
LOS GATOS, CALIFORNIA 95030

# PARTS LIST SPECIFICATIONS

DRAWING NO.  
A000803

DATE

REV  
F

TITLE

SPACE RACE  
PRINTED CIRCUIT BOARD ASSEMBLY  
VP 121

DRAWN

DATE

ENGINEER

DATE

## ITEM | PART NO. | QTY | DESCRIPTION

1	72000	9	7400 Integrated Circuit
2	72001	4	7402 " "
3	72002	5	7404 " "
4	72003	7	7410 " "
5	72004	1	7420 " "
6	72006	3	7427 " "
7	72007	2	7430 " "
8	72008	1	7448 " "
9	72010	8	7474 " "
10	72012	1	7486 " "
11	72013	4	7490 " "
12	72014	6	7493 " "
13	72015	3	74107 " "
14	72016	2	74153 " "
15	72023	1	9311/74154 "
16	72024	1	9312/8230 "
17	72017	10	9316 " "
18	72025	1	9322/74157 "
19	72026	1	9602 " "
20	72018	6	555 " "
21	72021	3	566 " "
22	30100	4	100 PF Capacitor, Mica
23	34102	3	.001 MFD Ceramic Bypass Capacitor
24	34101	17	.1 MFD Ceramic Bypass Capacitor
25	32101	9	.1 MFD Capacitor Mylar, + 10%, 6V.
26	35502	6	5MFD Capacitor, Electrolytic 10V
27	39100	1	100 MFD Capacitor, Tantalum, 10V 20%
28	35254	1	250 MFD Capacitor Electrolytic, 6V
29	37101	1	250 MFD Capacitor Electrolytic, 16V
30	35473	2	47 MFD Capacitor Electrolytic 6V
31	37100	1	8000 MFD Capacitor Electrolytic 16V
32	10101	3	100 ohm, + 10%, 1/4 Watt, Carbon Resistor
33	10151	1	150 ohm, " " " "
34	10221	3	220 ohm " " " "
35	10331	4	330 ohm " " " "



## PARTS LIST SPECIFICATIONS

DRAWING NO.

DATE

REV

A000803

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ITEM PART NO. QTY DESCRIPTION Space Race-PC Board Ass'y

36	10471	1	470 ohm, $\pm 10\%$ , 1/4 Watt, Carbon Resistor
37	10102	13	1K ohm " " " "
38	10222	11	2.2K ohm " " " "
39	10472	1	4.7K ohm " " " "
40	10682	3	6.8K ohm " " " "
41	10103	6	10K ohm " " " "
42	10473	1	47K ohm " " " "
43	10104	2	100K ohm " " " "
44	10334	2	330K ohm " " " "
45	10474	5	470K ohm " " " "
46	12101	1	100 ohm, $\pm 10\%$ , 1/2 Watt, " "
47	11152	1	1.5K ohm $\pm 5\%$ , 1/4 Watt, " "
48	11202	1	2.0K ohm " " " "
49	19100	1	4 ohm, $\pm 20\%$ , 10 Watt Resistor, Wire Wound
50	22104	1	100K, Trim Pot, PC Mount
51	22105	1	1 Meg., Trim Pot, PC Mount
52	71000	30	1N914 Diode
53	71001	5	1N4001 Diode
54	70000	2	2N3643 Transistor
55	70001	6	2N3644 Transistor
56	70002	1	2N3656 Transistor
57	72019	1	LM309K Voltage Regulator
58	83014	1	Heatsink, Wakefield 680-1.25A
59	84001	a/r	Heatsink Compound (#340 Dow)
60	60000	1	Switch, DPDT Slide, PC Mount
61	81001	1	Crystal, 14.31818 MHZ (HC-25 Case)
62	75100	2	Screw, 6-32 x 5/8 Pan Hd.
63	75101	4	Washer, 6-32 Internal Star Lock
64	75102	2	Washer, 6-32 Flat
65	75103	2	Hex Nut, 6-32
66	90101	1	P. C. Board, Space Race

